

## News from



# The GLORIOUS SOCIETY OF THE WORMHOLE

September 2020

## Hello Worms

I trust all is well with all of the Wormhole family. The Glorious Society of The Wormhole face to face meeting for September has been cancelled. With the virus rate including deaths on the rise I think the October meeting is unlikely right now also. We will again have a meeting on the air at the regular meeting time of 1100 on Saturday morning. Like the regular meetings there are members on the repeater long before the meeting time so jump in there and chew the rag. In addition to the radio meeting I will try something new. I will attempt to get everyone on ZOOM for picture only, no voice during the meeting. All voice will be on the radio ... that's what we do. But at least we could see each other. I will start the ZOOM about 1030 so everyone can have a half hour for chatting.

Bill Williams is inviting you to a scheduled Zoom meeting.

<https://zoom.us/j/96988994665?pwd=UHUrQXVRRXMvWlrb0NkQ3BJdFFxUT09>

Meeting ID: 969 8899 4665

Passcode: worm

I have limited new information on the Minnreg building sale. It was sold on August 20 but the Minnregs are renting for six months. I guess that means we can meet there thru February if we infact do have a face to face meeting again in that time. Maybe our Worm in residence Alan KO4CR will have better information for us during the meeting.

The next local hamfest that I know of that has not been cancelled is the Pasco County Hamfest on September 26. All outside but then it always is there ;-)

I am glad you asked about the Tampa Bay Hamfest! The Board of Directors voted in the August meeting to put off any decision until our September 23rd meeting. As of right now the planning continues for a December hamfest.

Dan Bobczynski, KG4HNS, has a show-n-tell after the meeting. It's about his NanoVNA, now a favorite instrument of his. In addition to his presentation he has recommended the following for you to watch before his presentation or you could watch them after.

IMSAI Guy #480      <https://www.youtube.com/watch?v=QJYeFpiqY8c>

and

W2AEW #316      <https://www.youtube.com/watch?v=9thbTC8-JtA>

and

IMSAI Guy #350      <https://www.youtube.com/watch?v=THc5ZTxQUSg>

### \* FCC PROPOSES NEW FEES FOR AMATEUR RADIO LICENSES\*

From the blog of Dan Romanchik, KB6NU Posted: 27 Aug 2020

I cadged this off QRZ.Com, but am requesting the permission of the author, Michelle Bradley, KU3N, founder of REC Networks.

On Wednesday, the FCC released a *Notice of Proposed Rulemaking* (NPRM) in MD Docket 20-270 which implements portions of the *Repack Airwaves Yielding Better Access for Users of Modern Services Act of 2018* (or RAY BAUM'S Act), which gives the FCC statutory authority to collect application fees. As a part of the Act, the FCC is required to switch from a fee structure mandated by Congress 20 years ago to a new cost-based system. This change will result in some fees being reduced and in some cases, such as the Amateur Radio Service, new fees are being added.

#### *Proposed new fees for Amateur Radio and reduction in GMRS fees*

Section 8 of the RAY BAUM'S Act does not provide any kind of statutory exemption for filing fees in the Amateur Radio Service, which, historically has had no filing fees.

Citing the costs involved in the automated processes, routine maintenance of the Commission's Universal Licensing System (ULS) and limited instances where staff

needs to be involved in the application process, the FCC is proposing an across-the-board fee of \$50 for new and modified licenses in the personal radio services, which includes Amateur Radio and the General Mobile Radio Service (GMRS). For GMRS, this is a reduction of the current \$70 fee. The FCC also proposes these fees for license renewals and requests for vanity call signs, the latter which had its filing fee eliminated several years ago. The FCC is proposing to still not charge for administrative updates, such as mailing address changes on amateur or GMRS applications. Amateur Radio will remain exempt from annual regulatory fees under Section 9 of the RAY BAUM'S Act.

### ***Commenting on the changes***

Once the NPRM is published in the *Federal Register*, filing deadlines for comments and reply comments will be established. Those dates will be announced by the FCC in a separate **Public Notice**. Comments will be accepted in the FCC's Electronic Comment Filing System under proceeding 20-270.

A copy of the NPRM, which includes the proposed fee structures, can be found [here](#).

The RAY BAUM'S Act is part of Public Law 115-141 and can be found in [this PDF document](#) starting on page 734 (Division P). The relevant part of the law starts on Page 736, under Section 8.

Link to full article at REC Networks, which also discusses fee changes for commercial broadcast radio can be found at <https://recnet.com/node/3182>

The post [FCC proposes new fees for amateur radio licenses](#) appeared first on [KB6NU's Ham Radio Blog](#).

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Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (KB6NU.Com/study-guides/), and often appears on the ICQPodcast (icqpodcast.com). When he's not teaching ham radio classes, he likes to operate CW on the HF bands, go for long walks around Ann Arbor, MI, and volunteer for Rotary Club service projects.

**\* COPY AND PASTE UPDATE FOR WINDOWS 10 \***

*Techradar.com* by Anthony Spadafora

Microsoft may be planning to release Windows 10X in the spring of 2021 but some of the new operating system's features could be coming to Windows 10 sooner than that including a new panel that completely changes how copying and pasting works.

As reported by Windows Latest, in Windows 10 Build 20185 the software giant has added a new panel that allows users to insert emojis, GIFs and even content from their clipboards. The new panel also includes several new features to make it easier for users to add content to their messages, documents and emails. In addition to being able to access your most recently used emoji and GIFs as well as search for new ones, the panel includes a feature called “Clipboard history” that displays a list of items that users have recently copied to the clipboard.

While there are already clipboard replacements available for Windows, the new panel will offer similar functionality natively and can even be synced across devices.

The clipboard in Windows 10 already allows users to access their clipboard history at any time by pressing the Windows key and V. Clipboard items can also be shared across Windows 10 devices by going to system settings and choosing “Automatically sync text that I copy” in the clipboard menu under the “Sync across devices” tab. However, clipboard history currently stores a maximum of 25 entries and the oldest items are deleted as new ones appear.

The new clipboard history coming to Windows 10 soon not only supports text but also images and HTML content. Users can also delete the history of the clipboard or turn off the feature entirely from the settings menu.

If you used Google's keyboard app Gboard before, the new panel in Windows will work in much the same way as GIFs and emojis can be accessed and inserted into your messages or documents very quickly and easily.

The new panel is expected to arrive with Windows 10's next feature update although at this time, it is still unknown as to when Microsoft will release it.

## \* RADIATION RESISTANCE \*

It is a common term in radio, but what is it?

Supplying power from your transmitter reaches the antenna and is dissipated. How? In two ways. Radiation of electromagnetic waves - this is the good stuff. The other power dissipation is in heat losses - not what you want.

The radiated power is what we want, the useful part. but it represents a form of loss just as much as the power used in heating the wire or nearby dielectrics is a loss. In either case, the dissipated power is equal to the current going to the antenna squared times R ( $I^2R$ ), the real resistance of the antenna components. This is the unwanted heat loss.

In the case of Radiation Resistance, however, R is a "virtual" resistance. It is developed from the nature of the antenna and the environment. If replaced with an actual resistor of the same value, it would dissipate the power that is actually radiated from the antenna the same.

The total power in the antenna is the current squared x  $R_o+R$  or  $I^2(R_o+R)$ , where  $R_o$  is the radiation resistance and R is the pure resistance of the antenna parts.

Normally in amateur antennas, the power loss as heat in the conductor does not exceed a few percent of the total power supplied to the antenna. Expressed in decibels, the loss is less than .1 db. The RF loss resistance of copper wire even as small as #14 is very low compared with the radiation resistance that is reasonably clear of surrounding objects and is not too close to the ground.

For the most part, a well located antenna will have its power dissipated as radiation resistance and is quite an efficient radiator.

73,

Ralph WD0EJA

[www.isotronantennas.com](http://www.isotronantennas.com)

Aug 2020



## \*CLUB MEETING\*

There will not be a face to face club meeting on September 5th due to the virus. We will meet again on the 2M repeater at the regular meeting time with a video to video concurrent on ZOOM. We normally meet on the first Saturday every month at 11:00 Saturday morning at the Minnreg Building located at 6340 126th Ave N, Largo. Members are welcome to come in the rear area through the fence gate on the southeast corner of the property. Talk-in is on the Wormhole repeater system. For those coming to the meeting who cannot hit our repeater we will be monitoring the Honeywell club repeater on 443.050 +141.3. We will keep an eye peeled for you. We will take advantage of the cooking facilities with an after-the-meeting Social and Wormdog picnic.

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## \*CLUB NETS\*

Check in on the club net Thursdays at 1930 and 2000 (or at the end of the 2M net). 2M at 146.850 – with a tone of 146.2. Our 6M net runs after our regular 2M net on 53.150 – 1MHz offset 146.2 tone.

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## \*LOCAL NETS\*

**MONDAY**

1730 147.030 + Receiver sites and tone info <http://www.qsl.net/wd4scd/> St Pete Yacht Club ARC

1830 147.060+ no tone St Pete ARC daily net St  
Petersburg

1900 144.210 USB CARS, vertical polarization  
Clearwater

1900 147.135 +146.2 Zephyrhills ARC  
Zephyrhills

2000 147.165+ 136.5 Brandon ARS from  
Brandon

2000 50.135 Pinellas ARK Pinellas  
County

2030 NI4CE system EAGLE Net, NTS traffic net, NI4CE system

2030 145.450 Pinellas ARK Pinellas  
County

## **TUESDAY**

1830 147.060 no tone St Pete ARC daily net from St  
Petersburg

1900 50.200 USB 6M net Brandon  
ARS

1900 28.450 WCF section net  
Clearwater

1900 NI4CE system WCF Section VHF ARES NI4CE  
system

1930 145.170 & 442.4 both pl 156.7 Pinellas ACS net Clearwater

1930 444.900 +141.3 Sheriff's Tactical ARC Tampa

2000 NI4CE system WCF Skywarn net NI4CE system

2000 147.105+ 146.2 Tampa	Tampa ARC net	from
2000 28.365 USB	simplex	Brandon ARS
2030 NI4CE system system	EAGLE Net, NTS traffic net	NI4CE
2100 28.465 USB	10/10 net	from Orlando
1900 146.490 simplex simplex Net	3 <sup>RD</sup> Tuesday monthly, Hillsborough Co ARES	

**WEDNESDAY**

1830 147.060 no tone Petersburg	St Pete ARC daily net	from St
1930 52.020 simplex Petersburg	Suncoast 6'ers	from St
1930 NI4CE system system	WCF Section Digital Info Ne	NI4CE
2000 147.105 146.2 Tampa	Greater Tampa CERT net	from
2000 146.97- 146.2 Clearwater	Clearwater ARS	from
2030 NI4CE system system	EAGLE Net, NTS traffic net	NI4CE
2100 NI4CE system affiliated	Tampa Bay Traders Net	non-

**THURSDAY**

1800 146.52 simplex Tampa	Hillsborough ARES/RACES	North
1830 147.060 no tone Petersburg	St Pete ARC daily net	from St

1900 444.750 +146.2 Tampa	Fusion net	from
1915 224.660- no tone Petersburg	St Pete ARC	from St
1930 146.6385 -127.3 Lakeland	Lakeland ARC	from
1930 444.225 + 146.2 Tampa	Hillsborough ARES/RACES	from
1930 146.850- 146.2 Petersburg	Wormhole	from St
2000 53.150 -1MHz 146.2 Petersburg	Wormhole	from St
2030 NI4CE system system	EAGLE Net, NTS traffic net	NI4CE
<b>FRIDAY</b>		
1830 147.060 no tone Petersburg	St Pete ARC daily net	from St
2030 NI4CE system system	EAGLE Net, NTS traffic net	NI4CE
<b>SATURDAY</b>		
0730 3.940 (7.281 Alt.)+/- QRM WCF	WCF Section HF Net	from
1830 147.060 no tone Petersburg	St Pete ARC daily net	from St
2030 NI4CE system system	EAGLE Net, NTS traffic net	NI4CE
<b>SUNDAY</b>		
0800 3.933	Florida Traders Net	non-affiliated

1830 147.060 no tone Petersburg	St Pete ARC daily net	from St
1930 NI4CE system system	WCF Section Net	NI4CE
2000 147.550 simplex County	550 Simplex Net	Pinellas
2030 NI4CE system system	EAGLE Net, NTS traffic net	NI4CE
2100 144.210 USB orientation	Clearwater ARS	vertical

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**\*FOR SALE / WANTED\***

Anyone having something for sale or who might be looking for an item let me know. I will not print phone numbers or email addresses unless specifically told to since this newsletter might end up on the web. The exception is when I get the information off the web. If you are a member of the Wormhole then you have all the information you need on a club roster and if you are not a member .. why not? OK, if you are not a member you can contact me at the email address at the end of this newsletter, I will give you the information to contact the person involved.

**FOR SALE,** Yaesu FT-2DR dual band analog/digital HT with box and manual. \$200 firm See George W1AAG 727-391-7928

FOR SALE, Comet GP-1 2M/440 MHz base antenna, \$50, Ralph W4TNY, [w4tny@tampabay.rr.com](mailto:w4tny@tampabay.rr.com), 727-409-0468

FOR SALE, LMR-400 UltraFlex, 50ft, factory installed heat shrunked PL-259 connectors, Ralph W4TNY, [w4tny@tampabay.rr.com](mailto:w4tny@tampabay.rr.com), 727-409-0468

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**\*HAMFESTS\***

- September 26 Odessa, Pasco County HamFest, all outside, 2317 Gunn Hwy Flea Market, \$5 entry, \$6 tailgate includes one ticket, talkin on 145.350 D-Star or analog, no tone, For indo call Don at 727-868-0176
- November 14** Pinellas Park, **SPARCFest**, admission FREE, tailgate free, Freedom Lake Park, 9990 46th St N, Southeast corner of US 19 and 49<sup>th</sup> Street, Talk-in on 147.060+ no tone. VE testing at 0900. For more information go to <https://www.sparc-club.org/sparcfest/>
- December 11 & 12** **Plant City, the 2020 Tampa Bay Hamfest is the Florida State Convention and West Central Florida Section Convention, Friday and Saturday, at the Expo Building in the Strawberry Festival grounds, advanced admission \$9, at the door \$10, for information contact Bill Williams AG4QX, chairman@fgcarc.org or go to <http://www.tampabayhamfest.org> or you can just ask me, Jim or Dee at a meeting ;-)**



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|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mid January               | Adventure Run, Honeymoon Island                                                                                                                                         |
| Last full weekend January | Winter Field Day,<br><a href="https://www.winterfieldday.com/">https://www.winterfieldday.com/</a>                                                                      |
| Late January              | Gasparilla celebration                                                                                                                                                  |
| Late February             | West Central Florida Tech Conference<br><a href="http://arrlwcf.org/wcf-special-events/wcftechconference/">http://arrlwcf.org/wcf-special-events/wcftechconference/</a> |
| Late February             | MS 150 Citrus Tour bike ride<br><a href="http://www.citrustour.org/register.php">http://www.citrustour.org/register.php</a>                                             |
| March/April               | MS Walks                                                                                                                                                                |
| March/April               | Mass Casualty Exercises                                                                                                                                                 |
| Late April                | Southeastern VHF Society Conference,<br><a href="http://www.svhfs.org">http://www.svhfs.org</a>                                                                         |
| Late April                | Florida QSO Party                                                                                                                                                       |
| Mid May                   | March For Babies (was March of Dimes)<br><a href="https://www.marchforbabies.org/Registration/Events">https://www.marchforbabies.org/Registration/Events</a>            |

Mid-May	Annual Armed Forces Crossband Test
Mid-May	Florida Hurricane Exercise
May, Memorial Day Weekend	Wormfest
First weekend in June	Museum Ships on the Air
Fourth weekend in June	Field Day
<a href="http://www.arrl.org/contests/announcements/fd/">http://www.arrl.org/contests/announcements/fd/</a>	
July 3/4	Midnight Run in Largo
<a href="http://www.kiwanismidnightrun.com/">http://www.kiwanismidnightrun.com/</a>	
August	International Lighthouse/Lightship Week
<a href="https://illw.net/">https://illw.net/</a>	
October, 3 <sup>rd</sup> weekend	JOTA, Scout Jamboree-on-the-AIR (around 14.280MHz)
Early December	ALS bike ride in Walsingham Park
December, Second weekend	Tampa Bay Hamfest <a href="http://www.fgcarc.org/">http://www.fgcarc.org/</a>

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### **\*YOUR WORMHOLE OFFICERS\***

Bill AG4QX is President and editor of this newsletter, Treasurer is Jim KD4MZL, Paul KA4IOX is the Secretary, Dee N4GD is the Repeater Trustee and Mike K4ZPE is both our club Vice President and webmaster.

### **\*YOUR WORMHOLE REPEATERS\***

53.150 -1Mz PL 146.2  
442.625 +5Mz PL 146.2  
146.850 - 600Kz PL 146.2

The Wormhole 2M and 440 repeaters are both now dual mode Yaesu DR-1X. FM analog as always and now Yaesu Fusion, a C4FM/FM digital mode.

The Wormhole website is at: <http://www.TheWormholeSociety.org>.

West Central Florida Section website: <http://www.arrlwcf.org/>.

The ARRL website is at: <http://www.arrl.org/>

This newsletter is written for The Glorious Society of the Wormhole, an ARRL affiliated amateur radio club located around the Seminole section of Pinellas County Florida. Anyone wishing to be added or removed from The Glorious Society of the Wormhole mailings please write to me at the address below and thy will be done.

73,

Bill Williams

AG4QX

ag4qx AT arrl DOT net